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Philosophical and Literary Society.

THE 94TH ANNUAL REPORT

For 1913-14.

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THE

NINETY-FOURTH REPORT

OF

THE COUNCIL

OF THE

LEEDS PHILOSOPHICAL AND LITERARY SOCIETY,

AT THE CLOSE OF THE SESSION 1913-1914.

READ AT THE ANNUAL MEETING, MAY 19th, 1914.

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THE LEEDS PHILOSOPHICAL AND LITERARY SOCIETY consists of the following Classes of Members and Subscribers:—

(1.) ORIGINAL PROPRIETARY MEMBERS (holding £100 Shares), who are entitled to personal admission to the Museum, Library, Lectures, and all other Meetings of the Society, and to two transferable tickets to admit visitors to the Lectures. They are exempt from Annual Subscription.

(2.) NEW PROPRIETARY MEMBERS (holding £50 Shares), who are entitled to similar personal privileges, and to two transferable tickets. Subscription, £1 1s. per annum.

(3.) ORIGINAL ORDINARY MEMBERS (holding £3 3s. Shares), who are entitled to similar personal privileges, and to one transferable ticket. Subscription, £2 2s. per annum.

(4.) NEW ORDINARY MEMBERS (holding £20 Shares), who are entitled to similar personal privileges, and to one transferable ticket. Subscription, £1 1s. per annum.

The following are entitled to personal admission to the Museum, Library, and Lectures, but not to business meetings; nor have they any transferable tickets to admit visitors:—

(5.) HONORARY MEMBERS, elected on the recommendation of the Council.

(6.) SUBSCRIBERS of £1 1s. per annum.

(7.) SUBSCRIBERS of 7s. 6d. per annum, being Ladies or Young Persons resident with Members, or with Subscribers in Class (6).

A list of shares offered for sale is kept in the office, and information as to price, &c., may be obtained from the Curator.

Shareholders must be duly admitted as Members of the Society before they can vote or attend Meetings.

All Subscriptions are due in advance.

No one can vote or attend Meetings whose Subscription is in arrears (see Rule 5).

REPORT OF THE COUNCIL

Read at the Annual Meeting 19th May, 1914,

AT THE END OF THE

NINETY-FOURTH SESSION, 1913-14.

The thanks of the Society are due to Lt.-Col. E. Kitson Clark, W. G. Collingwood, Miss A. M. Cooke, F. R. Dale, Dr. F. W. Dyson, Dr. Reginald Farrar, Professor John Garstang, Lt.-Col. E. A. Hirst, Professor J. H. Priestley, A. J. Sanders, Rev. R. Herbert Sewell for lectures delivered before the members; and to S. W. Cuttriss, Professor J. H. Macgregor, Miss M. Simpson, and Miss D. L. Walker for Saturday Evening lectures delivered during the past Session.

The list of Lectures is as follows:—

1.—"Meroë: the City of the Ethiopians. A Story of Four Years' Excavating on the Site." By John Garstang, D.Sc., M.A., F.S.A. *Oct. 21st, 1913.*

2.—"The Distances of the Stars." By F. W. Dyson, F.R.S., LL.D. *Nov. 4th, 1913.*

3.—"Anglo-Saxon and Danish Yorkshire." By W. G. Collingwood, M.A., F.S.A. *Nov. 11th, 1913.*

4.—"The Origin of Life, some theoretical Difficulties." By J. H. Priestley, B.Sc., F.L.S. *Nov. 18th, 1913.*

5.—"The Principles of Singing." By A. Shadwell, M.D., LL.D. *Dec. 2nd, 1913.*

6.—"The Size and Speed of Ocean Waves." By Vaughan Cornish, D.Sc., F.R.G.S. *Dec. 16th, 1913.*

7.—"Prehistoric Yorkshire." By Lt.-Col. E. Kitson Clark, T.D., M.A., F.S.A., M.Inst.C.E. *Jan. 13th, 1914.*

8.—"Leeds Pottery." By A. J. Sanders. *Jan. 27th, 1914.*

9.—"S. Francis of Assisi." By Miss A. M. Cooke, M.A. *Feb. 3rd, 1914.*

10.—"Euripides." By F. R. Dale, B.A. *Feb. 17th, 1914.*

11.—"The Irish Renascence." By Rev. R. Herbert Sewell, B.A. *March 3rd, 1914.*

12.—"Plague, Pestilence and Famine." By Dr. REGINALD FARRAR. *March 17th, 1914.*

13.—"The Waterloo Campaign." By Lt.-Col. E. A. HIRST. *March 31st, 1914.*

The effort of the Council, last year, to institute an earlier lecture hour for the first half of the Session met with so little success that a return was made to the former custom of having a full course of lectures at a later hour. There was an improved attendance at the lectures.

The arrangement has been discontinued under which Evening lectures were delivered before the members of the Society by members of the staff of the University, as the members attending were not sufficiently large to encourage the continuation of the arrangement.

The Council had pleasure in accepting the offer by Prof. Garstang, to deliver a Saturday morning course of seven Natural History lectures on "The Birds of Yorkshire," admission to which was free to the members of the Society. The lectures were most successful, many members of the Society taking advantage of the opportunity of hearing lectures on so attractive a subject. The demonstrations prior to the lectures were illustrated by specimens from the Society's collections, the lectures by the lantern.

During Lent a series of University Extension Lectures was delivered at 5.15 p.m. by Professor Grant for which a reduced fee was charged to members. It is gratifying to the Council to record that the attendances were larger than at the two previous courses of Extension Lectures.

The details of the lectures were as follows:—

By W. GARSTANG, M.A., D.Sc. "The Birds of Yorkshire."

1.—"Life Histories and Classification." *Jan. 31st, 1914.*

2.—"Birds of the Sea-Shore." *Feb. 7th, 1914.*

3.—"Birds of Inland Waters, Moors and Fells." *Feb. 14th, 1914.*

4.—"Birds of the Woodlands." *Feb. 21st, 1914.*

5.—"The Songs of Birds." *Feb. 28th, 1914.*

6.—"Birds of the Meadows and Wayside." *March 7th, 1914.*

7.—"Summary of Habits and Migrations." *March 14th, 1914.*

University Extension Lectures.

By Arthur J. Grant, M.A. "The Fall of the House of Stuart."

1.—"The Restoration Settlement and the task of Charles II." *Feb. 5th, 1914.*

2.—"The Ascendancy of France: the character and aims of Louis XIV." *Feb. 12th, 1914.*

3.—"The Secret Treaty of Dover." *Feb. 19th, 1914.*

4.—"The Popish Plot." *Feb. 26th, 1914.*

5.—"The Triumph of the Monarchy." *March 5th, 1914.*

6.—"Character and aims of James II." *March 12th, 1914.*

7.—"France and England; the turn of the tide." *March 19th, 1914.*

8.—"The Revolution." *March 26th, 1914.*

The Members and Subscribers are comprised in the following classes:—

	1913.	1914.
Original Proprietary Members (Shares 78) ...	55	54
New Proprietary Members (Shares 65)... ...	62	59
New Ordinary Members (Shares 35)	35	32
Annual Subscribers of 21s.	69	68
Annual Subscribers of 7s. 6d.	74	78
	295	291

The Society has lost by death the Right Hon. Lord Avebury, F.R.S., one of its Honorary Members.

As Mr. John Lubbock Lord Avebury lectured before the members of the Society, in 1861, "On the recent Geologico-Archæological Discoveries in Denmark, Switzerland and France" and gave an "account of his personal experiences and investigations on these extraordinary vestiges of a primeval race of man"; after succeeding his father in the baronetcy he delivered a lecture on "Ants" in 1883 and was elected the same year an Honorary Member.

During the past year Mr. Thomas John Kinnear, Mr. Reginald Dykes Marshall, Dr. J. A. Nunneley and Mr. Walter Dawson Hollis, Original Proprietary Members, and Mr. John R. Flitch, Mr. Robert Middleton and J. W. Stringer, New Proprietary Members, have been removed from the Society by death.

Mr. Reginald Dykes Marshall had been a member of the Society for 58 years and subscribed a sum of £60 for the rebuilding and extension of the Society's Museum in 1863, and was elected a Trustee of the Society's property.

Mr. Thomas John Kinnear joined the Society 57 years ago and subscribed £75 for the enlargement of the Hall and extension of the Museum.

Dr. J. A. Nunneley became a Proprietary Member on the death of his father in 1870, during 1890-91 he was a Hon. Curator in Zoology, and from 1892-1900 the Hon. Curator in Geology.

Mr. John R. Flitch had been a member of the Society for 27 years and on several occasions assisted the Council by recommending lecturers.

Mr. J. W Stringer was elected a member of the Society 34 years ago, he was a constant attendant at its lectures and was interested in natural science and the contents of the Museum.

The Saturday Evening Lectures described in the following list, attracted good audiences:—

"Greek Athletics." Miss D. L. Walker, M.A.
"Modern Jerusalem." Professor D. H. Macgregor, M.A.
"Country Folk Songs." Frank Kidson.
"The Common Dandelion." Miss M. Simpson.
"Old Leeds Pottery, 1760 to 1830." Francis J. Kidson.
"Travels in Northern Siberia." S. W. Cuttriss.

Total number of Visitors:—890; 1912-13, 1,352.

The Curator has continued his series of "Christmas Museum Lectures," which were well attended. The three lectures dealt with the "Wild Nature in Leeds Lanes."

The subjects were:—

"In East and North-East Leeds, Oulton to Roundhay."
"In North and North-West Leeds, Meanwood to Troydale."
"In West and South Leeds, Cockersdale to Robin Hood."

Total number of Visitors:—744; 1912-13, 702.

The number of visitors to the Museum is less than last year but larger than in 1911-12. The number for 1913-14 being 18,164; for 1912-13, 18,751, the mean of the last ten years being

18,905. These numbers do not include visitors to the Saturday Evening Lectures, nor to the Christmas Museum Lectures. The Students from the City School of Art who make regular visits are admitted free. The above numbers do not include those visits which are made by the School Children, under the "Leeds Schools' Museum Scheme."

The decrease of 600 visitors on the number of visitors last year was perhaps due to climatic influences, the year 1912 being a wet and 1913 a dry year. This year 1913 shows an increase of 1,700 on the number of visitors to the Museum in 1912.

Mr. Alec. Wormald, the Secretary of the Leeds Schools' Museum Scheme, has furnished the following report:—

"On October 14th, 1913, Mr. Crowther gave to the Teachers of the Elementary Schools an Outline Lecture on "By Still Waters," the subject chosen by the Leeds Schools' Museum Committee for the Thirteenth Session of the Scheme.

Alderman W. H. Clarke, Chairman of the Education Committee, presided, and was supported by Lt.-Col. Kitson Clark, Secretary of the Philosophical Society, Mr. P. L. Gray, H.M.I.S., Mr. S. B. Tait, and the Officers and Committee of the Scheme.

The first lecture to the children was delivered on Wednesday, October 15th, when Mr. W. H. Haler, H.M.I.S. occupied the Chair. There were also present, Mr. P. L. Gray, H.M.I.S., Mr. J. H. Webster (Education Committee's Inspector of Schools) and the Chairman of the Committee, Mr. Frank Shepherd. Mr. J. de Rome, was the Supervisor.

The Chairman, Mr. Haler, H.M.I.S., spoke of the manner in which the Government inspectors appreciated Mr. Crowther's endeavours.

Up to date, 61 lectures have been given and 14,640 scholars in charge of 366 teachers and drawn from 145 departments have visited the Museum.

Six more lectures have yet to be given to about 1,000 children representing 12 departments.

The reports received lead one to think that this lecture has even surpassed all previous ones. Every one speaks in appreciative terms of the successful way in which Mr. Crowther has arranged the lecture, to "drive home" the Nature Study lessons taught at School.

The teachers unite with the Management Committee in thanking Mr. Crowther and Miss Violet Crowther for their untiring interest in the Scheme.

This year the Education Committee showed their appreciation of the Scheme by making an "extra grant" to enable the visits to be extended.

Mr. Crowther has given a lecture to the children from the combined Special Schools for Defective Children. This innovation adds another batch of juvenile friends and admirers of Mr. Crowther."

Mr. A. Dodgson reports as follows on the gifts and additions to the Numismatic Collection and the work done in this department during the past year:—

By Mr. Richard Wilson, 19 copper Greek Colonial Coins of Sicyion, Gela, Carthage, etc. and 4 Roman Coins of Julius Caesar, Augustus, Caracalla and Constantius.

By Dr. T. P. Teale, 3 silver Coins of Japan, 4 of China, 1 of Ceylon, 1 of Hong Kong and 1 of Straits Settlement.

By Mr. R. H. Brown, 2 silver Dollars of the first issue of the Chinese Republic, Yuan-Shi-Kai, President, British bronze 1d., ½d., ¼d.—mint 1913.

From Mr. H. S. Spark, 2 Alexandrian bronze coins of Valerian and Claudius II.

By Mr. G. L. Chorley, two of his private Tokens in copper and bronze, obverse, struck from the original die of the buttons of the late Dr. Chorley of Leeds.

In addition to the above gifts the Society has acquired nearly 140 Coins, Tokens and Medals which form a valuable addition to the Museum Collection. Included is a series of 17 silver Coronation Medals mostly in proof condition of James I., Charles I., Charles II., James II., William and Mary, Mary, Anne (2), George I., Caroline, George II., George III., Charlotte, George IV., William IV., Victoria, Edward VII., and George V. Also a large silver medal of Edward VI., and a number of fine silver Bank Tokens of the reign of George III. of various values and dates, namely, 5/- 1804, 6/- 1804, 3/- 1812, 2/- 1815, 1/6 1811, 10d. 1805, 5d. 1805 and a dollar of Charles IV. of Spain, 1789, counter struck with the head of George III. to circulate in England; a specially fine set of Gun Money of James II. struck in Ireland of the following values 5/-, 2/6, 1/- and 6d.; Siege Pieces of Charles I. struck at Pontefract and Newark, Edward the Confessor's Penny and a

nice specimen of the penny of Edward I. struck at Kingston-upon-Hull. The Tokens are chiefly of the 18th Century period and consist of 7 pennies, 41 half-pennies and 24 farthings in fine condition.

From a local find at Templenewsam on Dec. 3rd, 1913, a First Brass Antoninus Pius, and a Second Brass Hadrian; and from Gipton Wood, May 21st, 1913, a First Brass Domitian. A Sixpence, the last of the Edinboro' Mint and a Sixpence of George II., under the bust LIMA.

The Council is again indebted to Mr. T. Pickersgill for the valuable assistance he has most generously given in arranging the Coins and especially in Cataloguing the new acquisitions.

The Council gratefully acknowledge the following gifts :—

By Mr. R. H. Brown, Headingley, a sum of three pounds towards the cost of distempering the Upper Staircase of the Museum, three 18th century purses and many ethnological and natural history objects; also seven volumes of books dealing with the History of Yorkshire.

By Mr. W. H. Bartholomew, M.Inst.C.E., a valuable and perfect Bronze Halbert with its three rivets intact, of the period 1300-1000 B.C., "found in a layer of sand, in which were pieces of black oak lying right above it" (Proc. Yorkshire Geological and Polytechnic Society, Vol. III., page 654), during the excavation for the making of a Canal lock to a depth of 26 feet at Woodnook, Altofts, 1842. Its length is 9¼ inches = 23½ cm.

Mr. Bartholomew has supplemented his donation of a Bronze Halbert by a further valuable and most acceptable gift of a series of eleven bronze objects "which were dredged up some years ago from a gravel bed in the River Calder, a short distance below Smalley Bight, near Stanley Ferry." The series consists of a flanged celt, a palstave, seven looped socketed celts, a socketed celt without a loop and a bronze object with a bearded man's head on it. These objects have the added interest of being local finds and also in being in a very fine state of preservation, the patina on the celts being little injured. This acquisition is one of the most valuable donations received by the Society in late years.

From Mr. Edwin Hawkesworth, a series of Jurassic fossil plant remains from the Lower Estuarine Rocks, Roseberry Topping. An interesting addition to the series which the Society possesses from Scarbro'. They include *Equisetites*, *Taenopteris*, *Nilssonia*, *Williamsonia* and other genera of plants. The leaves of many of the plants are detachable from the fissile shales. The Council wishes to record that Mr. Hawkesworth has for several years presented annually some object or objects of extreme geological interest to the Museum.

By Mr. J. J. Joicey, Witley, Surrey, by the influence of Mr. A. Noakes, a valuable series of Butterflies and Moths from New Guinea, Madagascar, and the slopes of the Andes in Peru. Among the latter are included six specimens of *Perisama eminens*, until 1912 not more than about three or four specimens were known in this country, three of which are now in the National Collection.

By Lady Bodington, an interesting selection of objects collected by the late Sir Nathan Bodington in Cyprus. It includes glass vessels, terra-cotta figures, an amphora, unguentaria, red earthenware bowl, bronze mirrors and knuckle bones. The objects are displayed on the Grand Staircase.

By Mr. N. H. Forster, Corbridge-on-Tyne, through the influence of Mr. J. E. Bedford, a series of fragments of plain and figured Samian Ware, circa A.D. 150 from Corstopitum, the Corbridge Excavations.

By Mr. W. R. Plows, Chapel-Allerton, a painted Greek vessel, of good design with lid, 3rd Cent. B.C., and an amphora Italy, 3rd Cent. B.C.

By Mr. J. E. Bedford, a copper engraving of John Harrison, by Delatre, 1812.

By Mr. Frank Kidson, a mezzotint of the Rev. Richard Winter Hamilton, President of the Society, 1837-8, '38-9, '39-40, by Schwanfelder.

By Mrs. M. Redmayne, Chapeltown, two large carved human figures of wood, each with a drum on its head, from West Africa.

By Mr. A. M. Woodward, of the Leeds University, two plaster casts, one of the knee and the other of the foot of a horse, being objects from Lanuvium connected with the Saville collection in the British Museum, and not in the Society's collections.

By Mr. A. Dodgson, a sword and scabbard.

By the President, Prof. P. F. Kendall, a fragment of a Roman Mortar with the rim stamp, AE SI GF from pottery works at Barnetby railway station, Lincolnshire. A kiln was found at the same place along with large quantities of broken pottery.

By Mrs. C. Burrows, Brighton, a number of Indentures of the time of Charles II. and George II.

By Dr. and Mrs. Eddison, several small mammals in the flesh, also an owl and the skeleton of an owl.

By Alderman C. H. Wilson, a young heron in the flesh.

By Mr. G. Loe, Roundhay, a number of shells of exotic mollusca, and dried specimens of a globe fish and a ray.

By Mr. H. J. Martin, Rothwell, two fine examples of glass-rope sponge, *Hyalonema Sieboldii*, Japan, one showing a little of the crust of the associated zoophyte, *Palythoa*.

Mr. Winthrop D. Foster, of the Bureau of Animal Industry, Washington, has supplemented his gift of last year, of a series of intestinal parasitic worms, sent to the Museum by the kindness of the late Mr. Henry March, by a donation of twenty-three species of these interesting and in many cases rare parasites. The specimens are preserved in a solution of formaldehyde. The donation includes specimens of fossil gastropod shells, *Turritella mortoni*, from the banks of Potomac River, Virginia.

From Mr. Robert Watterson, Beeston, specimens of Lepidoptera, Coleoptera, and Hemiptera collected in East Java.

The Remington Typewriter Company has presented an example of Model I., the first kind of writing machine manufactured by the Company. The earliest record of an attempt to produce a typewriter was in 1714, when a patent was granted

to an Englishman. Three Americans working together really designed the first practical typewriting machine, and their machine was made and put on the market by Messrs. E. Remington and Sons, proprietors of a large American gun factory, in 1874, as the Remington Typewriter, a somewhat crude machine but with the fundamental principles of the present day typewriter.

By Mr. John Watson, Withington, living specimens of the Leaf Insect, *Pulchriphyllum crurifolium* from Ceylon and of the Italian Water Beetle *Hydrophilus piceus* from Milan, formerly a well-distributed British beetle now surviving only in the Lincolnshire Fens. Also cocoons of the American Robin Moth *Samia cecropia.*

From Professor W. Garstang a number of Ethnological objects from Borneo. These include a carved wooden shield, reed instrument, mask, gourd, baskets ; and a musical instrument from China.

The Council felt that an innovation might be made in the arrangement of the Lecture List this year, by having an exhibition of something of local interest. A loan collection of examples of Old Leeds Pottery in the possession of members and friends of the Society was made and arranged in the Library, and was on exhibition for over a month in the cases. The collection was much admired by the members and appreciated by many visitors.

A lecture, which the Society helped to illustrate by contributing lantern slides, many of them coloured by hand, on "Leeds Pottery" was given before the members by Mr. A. J. Sanders and both before the lecture and after it the lecturer described many of the examples, on loan, in the cases.

This was followed by a "Saturday Evening" lecture by Mr. Frs. J. Kidson on "Old Leeds Pottery, 1760 to 1830," illustrated by the lantern. Mr. Kidson also described the pieces on exhibition and generously gave an evening to a more lengthened description of the exhibit to Museum visitors.

The thanks of the Society are specially due to Mr. Richard Wilson, a member of the Council, for the loan of 98 pieces of Old Leeds Pottery, many rare and unique, and for generously

defraying all expenses incurred in the double removal of his examples to and from the Society's Library; also to Mrs. Hawthorn Kitson for the loan of 12 beautiful examples of Cream Ware.

Mr. Wilson's examples included a Quintail flower horn, sucrier and cover with black transfer print of birds, teapot and cover with blue Chinese paintings, early painted Cream Ware mug, Chestnut bowl and cover, jug with names dated 1801, Cream Ware sauce boat of shell pattern with twisted handle, several Children's mugs with inscriptions, figure of Charity, Cream Ware candlesticks, coffee-pot and cover made for the Spanish market with Bull-fight printed in black, centre-piece with vase and cover, figures holding tray, painted jug dated 1801, Cream Ware centre-piece, hanging bucket and four double pots with impressed mark, pair of Cream Ware candlesticks supported by Griffins, black Egyptian Ware coffee-pot and cover, milk jug and basin, Cream Ware puzzle jug in blue willow pattern, jug with painted flowers and butterflies dated 1804, Cream Ware centre piece surmounted by figure of Ceres, and a goblet of Silver Lustre Ware.

Mrs. Hawthorn Kitson's exhibit included fine examples of Cream Ware oval dishes, cress dishes and baskets.

Misses Clarkson, Alverthorpe Hall, Wakefield, kindly contributed tureen, cover and two soup plates, part of a painted dinner service.

Mrs. Walter Tyas lent a mug made at Burmantofts, with painted roses and writing.

Under the direction of Mr. Reginald A. Smith, Assistant Keeper of the British and Mediæval Antiquities, British Museum, the collections of prehistoric implements and pottery, and of classical pottery, glass and bronze objects, on the Grand Staircase Landing have been classified according to periods.

The objects from Cave Shelters and Lake Dwellings, formerly displayed in table cases in the Inner Vestibule, have been incorporated in the wall cases on the Grand Staircase Landing

and the Mediæval Metal Work and other objects previously exhibited on the staircase landing have been temporarily deposited in the cases in the Inner Vestibule.

The following are the sections of the Collections as arranged :—

STONE AGE OF EGYPT.—Flint implements, the present classification includes many palæolithic types that may be of the same date as corresponding forms of the Gravels of Western Europe.

STONE AGE OF SCANDINAVIA.—Majority of specimens probably of neolithic (later stone) age.

EARLY STONE AGE OF EUROPE.—Earliest human period of palæolithic implements from the Drift or river gravels and of the Cave period.

STONE AGE OF YORKSHIRE.—Neolithic arrow-heads, scrapers and other flint implements. The arrow-head precedes the later Stone Age.

SWISS LAKE DWELLINGS.—Objects from the pile-dwellings built near the margins of Swiss and German Lakes in the neolithic or bronze periods.

BRONZE AGE OF BRITAIN.—Objects arranged to show development of the axe-head or celt from a form in imitation of the stone axe-head of neolithic times. Period 2000—500 B.C.

EARLY IRON AGE OR LATE KELTIC PERIOD.

ROMAN BRITAIN.—Pottery from graves of the first two centuries of the Roman occupation, A.D. 43—410.

POTTERY OF THE CLASSICAL PERIOD.—Mycenæan style about 1500-1100 B.C., which lingered on in Cyprus to about 900 B.C. Geometric or Dipylon style about 1000-800 B.C. Greek Vases with black figures on a red ground about 600-500 B.C., and red figures on a black ground 500-400 B.C. Samian Ware, a Gaulish imitation of the products of Arretium, Italy.

ANGLO-SAXON.—Objects from graves of tribes in Britain dating from Pagan period, about 500-650 A.D.

The third Lecture of a series of "Studies of Wild Nature," delivered under the Museum Scheme to School Children, is illustrated by forty cases, amongst which are special exhibits of the "Chicks of Water-birds," "Bony-framework of Birds which haunt lakes and ponds," "Skins of Aquatic Birds," "Fresh-water Birds," "Nests of Birds which dwell by Still Waters," "Mammals of the Ditches," "Fresh-water Fishes," "Frogs, Toads, and Newts," "Eggs and Tadpoles of Amphibia," "Fresh-water Shells," "Aquatic Insects," and "Water Plants."

The two collections of British Marine Mollusca, the gifts of late Dr. Herbert Rowe and of Mrs. Joseph Hebden, of Wakefield, have been combined and displayed in a series of six table cases in the large Zoological Room and are being re-classified and re-named.

A further series of Pen and Ink Drawings of "Aquatic Insects," "Structure of Plant tissue," "Fungi," a "Lake Dwelling," "The Evolution of Bronze Celts" has been prepared and placed amongst the objects the drawings illustrate. A new set of hand-printed labels with red borders has been substituted for former white labels in the Staircase collections of Classical Pottery.

The specimen of Chimpanzee *Anthropopithecus troglodytes* in the flesh, presented to the Society by Mr. E. H. Bostock, Glasgow, by the influence of Mr. Frank Somers, Leeds, has been set up by Mr. Charles Kirk, Artist in Taxidermy, Glasgow, and included in the collection of Primates.

The walls of the upper section of the Grand Staircase and of the North and South Geological Rooms have been distempered.

The use of the Museum by the outside public is maintained. Students are helped as fully as opportunity will allow. School children are brought in batches, under the charge of teachers from outside towns and villages. Students of the Medical School and of the City Art Gallery continue their periodic visits and studies.

No further communication has yet been received from the Town Clerk in relation to a joint arrangement in the interests of the Public and of the Society, as suggested in a letter from him dated April 13th, 1905.

SUNSHINE AT LEEDS IN 1913.

The observations recorded below were made by Jordan's Photographic Sunshine Recorder at the following stations in Leeds:—

1. The Museum of the Philosophical and Literary Society, situate in the centre of the city; elevation above the sea, 131 feet. Recorder—Mr. HENRY CROWTHER, Curator.
2. Lawnswood Cemetery, Adel, 4 miles N.W. from the centre of the city; elevation, 475 feet; on the fringe of the city. Recorder—Mr. S. R. DYSON.

The Monthly Summary is appended:—

Months.	Stations.	Hours of sunshine registered.	Percentage of possible Duration.
JANUARY	1	12.35	5.20
	2	15.55	6.60
FEBRUARY	1	60.35	22.68
	2	66.40	24.96
MARCH	1	119.25	32.80
	2	137.00	37.63
APRIL	1	120.35	29.00
	2	133.25	31.95
MAY	1	146.35	29.80
	2	162.30	33.00
JUNE	1	171.15	34.00
	2	194.50	38.50
JULY	1	123.00	24.30
	2	145.30	28.75
AUGUST	1	131.35	28.90
	2	155.10	34.10
SEPTEMBER	1	121.50	32.55
	2	134.20	35.83
OCTOBER	1	72.40	23.23
	2	82.15	25.70
NOVEMBER	1	29.20	11.93
	2	39.45	16.00
DECEMBER	1	10.10	4.60
	2	17.15	7.76

SUMMARY FOR THE YEAR.

	Hours recorded.		Difference from mean of ten years in hours.		Percentage of possible duration.
	H.	M.	H.	M.	
Museum ..	1,119	35	− 94	23	25.35
Lawnswood ..	1,284	35	− 145	34	29.10

27.2	per cent.	mean for	1913.	29.2	per cent.	mean for	1908.
26.7	,,	,,	1912.	28.7	,,	,,	1907.
36.9	,,	,,	1911.	30.3	,,	,,	1906.
31.6	,,	,	1910.	30.7	,,	,,	1905.
29.9	,,	,,	1909.	31.2	,,	,,	1904.

Or 30.24 per cent. mean for ten years.

Summary of Meteorological Observations taken at the Philosophical Hall, and at Lawnswood, during the year 1913.

1913.	Mean Height of Barometer (inches).	Mean Temperature of Air (degrees).	Amount of Rainfall.	
			Museum (inches).	Adel (inches).
January	29.62	39.6	2.92	3.78
February...	30.02	41.3	0.62	0.83
March	29.67	45.9	2.92	3.13
April	29.75	48.2	2.46	3.06
May...	29.80	55.5	2.10	2.59
June...	29.94	60.9	1.55	1.46
July	29.98	60.9	0.55	0.80
August	29.97	62.1	1.16	1.29
September	29.89	58.1	1.14	1.47
October	29.74	52.4	2.66	3.09
November	29.68	47.9	1.93	2.05
December	29.81	42.1	1.79	2.35
Yearly Means ...	29.82	51.2	21.80	25.90

EXTREMES FOR THE YEAR 1913.

Greatest Barometric pressure—30.59 inches on February 12th, the temperature of the mercury being 59°; Least pressure—28.56 inches on March 19th, the temperature of the mercury being 51°.

Greatest degree of Heat, indicated by the thermometer in the shade—83° on August 3rd; Minimum—20° on January 14th.

Greatest fall of Rain (during 24 hours)—0.92 inches on June 17th. Average yearly Rainfall at the Museum for the ten years 1904—1913 is 27.56 inches.

PERCENTAGE OF SUNSHINE AT THE MUSEUM, COMPARED WITH THAT RECORDED AT ADEL, ADEL BEING RECKONED AS 100.

1898...	79.1 per cent.	1906...	87.5 per cent.
1899...	82.8 ,,	1907...	83.2 ,,
1900...	78.0 ,,	1908...	80.6 ,,
1901...	85.5 ,,	1909...	78.7 ,,
1902...	82.4 ,,	1910...	83.9 ,,
1903...	87.5 ,,	1911...	84.5 ,,
1904...	87.7 ,,	1912...	84.1 ,,
1905...	87.2 ,,	1913...	87.1 ,,

The adopted Mean Temperature of the Air is the mean of the following four daily readings:—(*a.* and *b.*) Dry Bulb Thermometer read at 10 a.m. and 4 p.m.; (*c.* and *d.*) Maximum and Minimum Thermometers, all the instruments in a screen.

The Hall is situate at 1° 32′ 45″ W., and 53° 47′ 51″ N.

The Bench Mark at the corner of the Philosophical Hall is 131.8 feet above sea level, and 10 inches above the pavement. The cistern of the barometer is 4.3 feet, the thermometers are 42 feet, and the rain-gauge is 45 feet above the Bench Mark.

LEEDS PHILOSOPHICAL AND LITERARY SOCIETY.

Statement of Receipts and Payments for the year ending 30th April, 1914.

RECEIPTS.	£ s. d.	£ s. d.
To Annual Subscriptions, viz.:—		
,, New Proprietary Members	58 16 0	
,, New Ordinary Members	34 13 0	
,, Subscribers, of 21s....	66 3 0	
,, Subscribers, of 7s. 6d.	28 10 0	
,, Arrears	1 8 6	
		189 10 6
,, Fees for Hall	254 5 6	
,, Visitors' Fees	83 7 4	
,, School Children	61 1 10	
		398 14 8
,, Donation for Distempering Staircase ...		3 0 0
,, Sale of Shares		12 0 0
,, Sale of Guides	5 14 2	
,, Sundries	16 0 6	
		21 14 8
,, Extension Lectures—		
Professor Grant	43 7 0	
Professor Garstang	11 3 3	
		54 10 3
,, Midland Railway Dividend		47 7 10
,, Due to Treasurer, 30th April, 1914 ...		307 15 4
		£1,034 13 3

PAYMENTS.	£ s. d.	£ s. d.
By Balance due to Treasurer, 30th April, 1913	—	302 8 0
,, Repairs	22 19 11	
,, Taxes	25 16 8	
,, Rates	30 10 10	
,, Insurance	14 15 3	
		94 2 8
,, Coals	19 6 0	
,, Coke	14 16 3	
,, Electric Lighting...	14 17 1	
,, Gas	6 2 0	
,, Water	3 12 8	
,, Cleaning	21 4 0	
		79 18 0
,, Distempering Staircase, N. & S. Geological Rooms	13 6 6	
,, Furniture and Fixtures		16 6 10
,, Salaries	271 18 0	
,, Collector	5 0 0	
,, Auditors	2 2 0	
		308 13 4
,, Library and Collections	40 2 1	
,, Postages	17 0 0	
,, Advertising and Printing	64 19 8	
,, Lectures	55 11 6	
,, Extension Lecturer's Fees	27 6 0	
,, Telephone	10 0 0	
,, Sundries	18 15 6	
		233 14 9
,, Commission and Interest		15 16 6
		£1,034 13 3

We have examined the Books and Vouchers of the Leeds Philosophical and Literary Society, and find the above to be a correct abstract of the same.

BEEVERS & ADGIE,
CHARTERED ACCOUNTANTS.

LEEDS, *June 10th, 1914.*

Capital Account.

£2,013 1s. 2d. Preference 2½ per cent. Midland Railway Stock.

LIST OF DONATIONS AND ADDITIONS

TO THE

SOCIETY'S MUSEUM AND LIBRARY.

1913-1914.

Donors marked thus † are Members of or Subscribers to the Society.

ZOOLOGY.

A valuable collection of Butterflies and Moths collected in New Guinea, Madagascar, and the slopes of the Andes in Peru, the latter include specimens of the rare *Perisama eminens* ..... See note page 10.	Mr. J. J. Joicey, Witley, Surrey, per Mr. A. Noakes.
Blue Tit, Shrew and Moles, in the flesh, and skeleton of Brown Owl	†Dr. and Mrs. Eddison, Adel.
Young Heron in the flesh	Mr. Ald. Wilson, Leeds.
Blackbird's Nest built within a Thrush's Nest, Bolton Percy..... Nests of Hedge Sparrow	†Mr. R. H. Brown, Headingley.
Skull of Sparrow, Birds' Eggs and Birds' Nests.....	Miss R. Wright, Methley.
Two fine specimens of the Glass-rope Sponge, *Hyalonema sieboldii*	Mr. H. J. Martin, Rothwell.
Tsetse Flies and Pupæ, *Glossina palludipes*, Ngoa, Mpika, N.E. Rhodesia	Mr. W. Lloyd, Livingstone, Rhodesia.
A number of Beetles and Butterflies from East Java	Mr. R. Watterson, Beeston, Leeds.
Living specimens of Leaf Insects, *Pulchriphyllum crurifolium*, from Ceylon, Italian Water Beetles, *Hydrophilus piceus*, and cocoons of American Robin Moth, *Samia cecropia*.....	Mr. John Watson, Withington, Manchester.
Portuguese Man of War, *Physalia* ...	Mr. Secker Walker. Chapeltown.
Two Scorpions, Yaunde, Cameroon...	Mr. T. Ledgard Jameson. Leeds.

Golden-crested Wren in the flesh.....	†Mr. Hoffmann Wood, Leeds.
Shells of Exotic Mollusca..... Specimens of Ray and Globe Fish ...	Mr. J. Loe, Roundhay.
Two specimens of the Globe Fish, *Diodon maculatus*, St. Lucia, West Indies	Mr. Stephen Payne, Scarborough.
A series of Intestinal Parasitic Worms, preserved in formaldehyde—	Mr. Winthrop D. Foster, Washington, U.S.A.

Margaropus annulatus	host	Ox
Physocephalus sexalatus	„	Pig
Ascaris suis	„	Pig
Ascaris lumbricoides	„	Man
Œsophagostomum dentatum	„	Pig
Œsophagostomum columbianum	„	Sheep
Stephanurus dentatus	„	Pig
Taenia saginata	„	Man
Moniezia trigonophora	„	Sheep
Metastrongylus apri	„	Pig
Trichuris ovis	„	Sheep
Fasciola magna	„	
Cysticercus pisiformis	„	Rabbit and White Mouse
Taenia pisiformis	host	Dog
Ascaris equorum	„	Horse
Cysticercus tenuicollis	„	Sheep
Dipylidium caninum	„	Dog
Gongylonema scutatum	„	Sheep
Trichinella spiralis (larvæ)	„	Rat
Necator americanus	„	Man
Gastrophilus sp.	„	Horse
Cysticercus cellulosæ	„	Pig
Thysanosoma actinioides	„	Sheep

See note, page 11.

GEOLOGY.

A series of Jurassic fossil plant remains, from the Lower Estuarine Rocks, Roseberry Topping	†Mr. Edwin Hawkesworth, Crossgates.

See note page 10.

Specimens of fossil Gastropod Shells, *Turritella mortoni*, Potomac River, Virginia	Mr. Winthrop D. Foster, Washington, U.S.A.

BOTANY.

Grasses grown from seeds found in the crop of Pallas's Sand Grouse, from Central Asia	Mr. G. Parkin, Wakefield.
Specimens of *Cordiceps militaris*, a fungus which grows on caterpillars	Mr. Ward Law, Silsden.

ETHNOLOGY.

Two large carved Human Figures of wood, each with a drum on its head, from West Africa.....	Mrs. M. Redmayne, Chapeltown.
Curved Sword with English blade and foreign handle and Scabbard	†Mr. A. Dodgson, Headingley.
Carved Wooden Shield, Mask and Baskets from Borneo .... Musical Instrument from China	†Prof. Garstang, Headingley.
Kaffir Wire Bracelet ..... Three 19th Century Ring-purses	†Mr. R. H. Brown, Headingley.

ARCHÆOLOGY.

A Bronze Halbert, with the three rivets intact, period 1,300-1,000 B.C., from Woodnook, Altofts..... A flanged Celt, Palstave, seven looped socketed Celts, and a socketed Celt without a loop, also a bronze Object with a bearded man's head on it, from Smalley Bight, near Stanley Ferry..... See note page 9.	†Mr. W. H. Bartholomew, Headingley.
A series of Bronze, Terra-cotta and Glass Objects, collected in Cyprus by the late Sir Nathan Bodington See note page 10.	†Lady Bodington, Headingley.
Two Plaster Casts of knee and foot of Horse, in marble, from Lanuvium, and now in the British Museum ... See note page 11.	Mr. A. M. Woodward, The University, Leeds.
Fragment of a Roman Mortar with rim stamp, from pottery works, Barnetby, Lincolnshire ..... For stamp mark see page 11.	†The President (Prof. P. F. Kendall).

A painted Greek Vessel with lid, 3rd Cent. B.C.; an Amphora, Italy, 3rd Cent. B.C., and a modern Egyptian Water Vessel	Mr. W. R. Plows, Chapeltown.
Fragments of Samian Ware, circa A.D. 150, from Corstopitum, Corbridge Excavations.....	Mr. N. H. Forster, Corbridge-on-Tyne.

NUMISMATICS.

Nineteen Copper Greek Colonial Coins of Sicyon, Gela and Carthage Four Roman Coins of Julius Cæsar, Augustus, Caracalla, and Constantius	†Mr. R. Wilson, Armley.
Three Silver Coins of Japan ..... Three Silver Coins and one Nickel Coin of China ..... Silver Coins: one of Ceylon, of Hong Kong and of the Straits Settlement	†Dr. T. P. Teale, Headingley.
Two Silver Dollars of the first issue of the Chinese Republic, Yuan-Shi-Kai, President..... British Bronze 1d., ½d., ¼d.—mint 1913	†Mr. R. H. Brown, Headingley.
Two Alexandrian Bronze Coins of Valerian and Claudius II.....	Mr. H. S. Spark, Church Fenton.
Two private Tokens in copper and bronze	Mr. G. L. Chorley, Leeds.
Seventeen Silver Coronation Medals in proof condition:— Large Silver Medal of Edward VI. ..... Seven Silver Bank Tokens of George III. ..... Dollar of Charles IV. of Spain, counterstruck with head of George III. ..... A fine set of Gun Money of James II. ..... Siege Pieces of Charles I., struck at Pontefract and Newark..... Penny of Edward I. ..... Seventy-two Copper Tokens, in fine condition, of the 18th Century	Purchased.

See note page 8.

First Brass Roman Coins of Antoninus Pius, and Second Brass of Hadrian, found at Templenewsam	Purchased.
First Brass Coin of Domitian, found in Gipton Wood	

MISCELLANÆ.

Yorkshire Indentures, in parchment, of the time of Charles II. and George II.	Mrs. C. Burrows, Brighton.
Typewriting Machine, being Model I., the first kind of writing machine manufactured by the Company.....	The Remington Typewriter Company.

For description see page 11.

ENGRAVINGS.

An Engraving on Copper of John Harrison, by Delatre, 1812	†Mr. J. E. Bedford, Headingley.
A Mezzotint of the Rev. Richard Winter Hamilton, by Schwanfelder	Mr. Frank Kidson, Chapeltown.

LIBRARY.

Guide to the Economic Series, No. 1. The Housefly, 1913	The Trustees of the British Museum (Natural History).
Revision of Ichneumonidæ, Pt. II., 1913	
Catalogue of Indian Big Game, Hume Bequest, 1913	
Catalogue of Lepidoptera Phalænæ, Vol. XII., 1913	
Catalogue of Mammals of Western Europe, 1913	
Catalogue of Chætopoda, Pt. I., Arenicolidæ.....	
Catalogue of Marine Reptiles of the Oxford Clay, Pt. II., 1913.....	
Biography and Unparalleled Discoveries of T. J. J. Lee	Mr. W. L. Webb, Independence, Missouri, U.S.A.

Annals of Yorkshire, Vol. I. and II., 1852	†Mr. R. H. Brown, Headingley.
Annals of Leeds and Surrounding Districts, 1860.....	
Yorkshire Past and Present, Divisions 1, 2, 3, 4	
"Historic Darlington"	The Author, Mr. Edward Wooler, Darlington.
Roman Station of Lavatræ (Bowes) (pamphlet)	

PERIODICALS.

WEEKLY.

Nature	Purchased.

MONTHLY.

Annals and Magazine of Natural History.....	Purchased.
Geological Magazine	Purchased.
Journal of the Chemical Society.....	Purchased.
Monthly Notices of the Royal Astronomical Society.....	The Society.
Philosophical Magazine and Journal of Science.....	Purchased.
Journal of the Anthropological Institute	Purchased.

BI-MONTHLY.

Journal of the Royal Microscopical Society.....	The Society.

QUARTERLY.

Quarterly Journal of Microscopical Science.....	Purchased.
Quarterly Journal of Geological Society	The Society.

ANNUALLY AND OCCASIONALLY.

Philosophical Transactions.....	Purchased.
Proceedings of the Royal Society ...	The Society.
Proceedings of the Royal Institution of Great Britain	The Institution.
Publications of the Ray Society	Purchased.

British Association Report.....	The Association.
Greenwich Observations.....	The Astronomer-Royal.
Memoirs of the Royal Astronomical Society	The Society.
Radcliffe Astronomical and Meteorological Observations	Radcliffe Trustees.
British Rainfall.....	Purchased.
Monograph of the Palæontographical Society	Purchased.
Proceedings of the Yorkshire Geological Society	The Society.
Transactions of the Leeds Astronomical Society	The Society.
Transactions of the Leeds Geological Association	The Association.
Proceedings of the Liverpool Geological Society.....	The Society.
Journal of the Liverpool Geological Association	The Association.
Natural History Transactions of Northumberland, Durham, and Newcastle-upon-Tyne.....	The Tyneside Naturalists' Field Club.
Proceedings of the Birmingham Philosophical Society	The Society.
Annual Report of the Yorkshire Philosophical Society	The Society.
Transactions of the Leicester Literary and Philosophical Society	The Society.
Report of the Committee of Leicester Town Museum	The Museum.
Report of the Meteorological Department of the Borough of Southport.	The Meteorological Observer.
Annual Report of the Urban Sanitary Authority of the City of Leeds.....	Sanitary Department.

Report of the Bristol Museum	The Museum Committee.
Report of the Reading Museum	The Free Library and Museum Committee.
Proceedings of the Liverpool Literary and Philosophical Society	The Society.
Annual Report and Proceedings of the Liverpool Science Students' Association	The Association.
Memoirs and Proceedings of the Manchester Literary and Philosophical Society	The Society.
Reports of the Manchester Museum Handbooks do. do.	The Keeper.
Annual Report of the Sheffield Literary and Philosophical Society	The Society.
Annual Report of the Royal Cornwall Polytechnic Society.....	The Society.
Report of Associated Architectural Societies	The Association.
Proceedings of the Royal Society of Edinburgh ..... Transactions do. do.	The Society.
Transactions of the Edinburgh Geological Society.....	The Society.
Proceedings of the Glasgow Philosophical Society	The Society.
Scientific Proceedings of the Royal Dublin Society..... Scientific Transactions do.	The Society.
Transactions of the Royal Irish Academy ..... Proceedings do. do.	The Academy.
Journal of the Royal Geological Society of Ireland	The Society.

Annual Report and Proceedings of the Belfast Naturalists' Field Club	The Club.
Cape Meridian Observations ..... Report of H.M. Astronomer at the Cape of Good Hope to the Secretary of Admiralty	Cape Astronomer-Royal.
Report of Australasian Association for the Advancement of Science.....	The Association.
Journal and proceedings of the Royal Society of New South Wales	The Society.
Journal of the Royal Geographical Society of Australasia	The Society.
Wealth and progress of New South Wales	The Agent-General.
Records of the Geological Survey of New South Wales ..... Memoirs of the Geological Survey of New South Wales	The Surveyor.
Annual Report and Papers of the Department of Mines and Agriculture, New South Wales	The Department.
Records of the Australian Museum Report of the Trustees of the Australian Museum.....	The Trustees.
Proceedings of the Royal Society of Queensland	The Society.
Queensland Agricultural Journal	The Society.
Annals of the Queensland Museum...	The Trustees.
Transactions and Proceedings of the New Zealand Institute	The Institute.
Journal Royal Anthropological Society of Australia	The Society.
Papers and Proceedings of the Royal Society of Tasmania	The Society.

Proceedings and Transactions of the Royal Society of Canada	The Society.
Proceedings of the Canadian Institute Annual Report do. Transactions do.	The Institute
Proceedings and Transactions of the Nova Scotian Institute of Natural Science	The Institute.
Annual Report, Hamilton Public Library, Ontario, Canada	The Librarian.
Journal and Proceedings of the Hamilton Association	The Association.
Geological and Natural History Survey of Canada ..... Annual Report and Papers—do. ..... Contributions to Canadian Palæontology	Department of the Interior.
Bulletin of the Natural History Society of New Brunswick.....	The Society.
Publications of the Royal Swedish Academy of Sciences.....	The Academy.
Papers of the Royal University of Norway	The University.
Bulletin of the Geological Institution of the University of Upsala	The Institution.
Oversigt over det Kongelige Danske Videnskabernes Selskabs Forhandlinger.....	Royal Danish Society of Sciences.
Bulletin, Société Impériale, Moscow...	The Society.
"Leopoldina" Amtliches organ der Kaiserlichen, Leopoldino-Carolinischen Deutschen Akademie der Naturforscher	The Academy.
Mittheilungen der Kais. Königl. Geographischen Gesellschaft in Wien ...	The Society.
Memorias de la Sociedad Científica Mexico	The Society.

"Boletin Mensual" Observatorio Meteorologico-Magnetico Central de Mexico	The Editor.
Annuario del Observations Astrónomico Nacional Mexico	The Astronomer.
Boletin del Observatorio Astronómico Nacional de Tacubaya	The Observer.
Transactions of the American Philosophical Society ..... Proceedings do.	The Society, Philadelphia.
United States Geological Survey, Annual Report..... Contributions to American Ethnology. United States Geographical and Geological Survey	The Department, Washington.
United States Department of Agriculture, Publications of	The Department, Washington.
Report of the Smithsonian Institution Smithsonian Miscellaneous Collections Smithsonian Contributions ..... Annual Reports of the Bureau of Ethnology ..... Miscellaneous Publications of the Bureau of Ethnology	The Institution, Washington.
Proceedings of United States National Museum ..... Report do. do. Bulletins do. do.	The Museum, Washington.
Memoirs of the National Academy of Sciences U.S.A.	The Academy, Washington.
Transactions of the Academy of Science of St. Louis	The Academy.
Proceedings of the Academy of Natural Sciences of Philadelphia... Papers do. do.	The Academy.
Transactions of the Wagner Institute of Science, Philadelphia.....	The Institute.

Proceedings of the American Academy of Arts and Sciences.....	The Academy, Boston.
Transactions of the Botanical Society of America	The Society, St. Louis.
Botanical Society of America	The Society, Cornell University.
Transactions of the Wisconsin Academy of Sciences, Arts, and Letters	The Academy, Madison.
Bulletins of the Wisconsin Geological and Natural History Society..	The Society.
Memoirs of the National Academy of Sciences, Washington.....	The Academy.
Bulletins of the Philosophical Society of Washington.....	The Society.
Proceedings of the Davenport Academy of Sciences	The Academy.
Transactions of the Wagner Free Institute of Science, Philadelphia ...	The Institute.
Annual Report, Transactions, and Miscellaneous Papers of the Historical and Scientific Society of Manitoba	The Society.
Proceedings of the Boston Society of Natural History, U.S.A. ..... Memoirs do.	The Society.
Bulletins of the Essex Institute, U.S.A.	The Institute, Salem.
Annual Report of the Curator of the Museum of Comparative Anatomy, Harvard College ..... Annual Report of Harvard College	The College, Cambridge.
Missouri Botanical Gardens Report...	The Director, St. Louis, Mo.
Brooklyn Institute of Arts and Sciences	The Institute, Brooklyn N.Y.
Harvard University Catalogue	The University.
Annual Report of the Chicago Academy of Sciences..... Special Publications	The Academy.

Transactions of the Astronomical Observatory of Yale University ...	The University, Newhaven.
Annual Report do.	
Report of the President of Yale University	
Catalogue do. do.	
Journal of the Elisha Mitchell Scientific Society	The Society, Chapel Hill.
Tufts College Studies.....	The College.
Transactions of the Meriden Scientific Association	The Association.
Bulletins of the Buffalo Society of Natural Sciences..	The Society, Buffalo, N.Y.
Bulletins of the University of Montana, Missoula	The University.
Publications of Colorado College	The College, Colorado Springs.
Philippine Journal of Science	Bureau of Science, Government of the Philippine Islands.
University of Virginia, Publications and Bulletin of the Philosophical Society	The University, Charlottesville.
Bulletin of Minnesota School of Mines Contributions Geological and Natural History Survey of Minnesota	The University of Minneapolis.
Transactions of Connecticut Academy of Arts and Sciences	The Academy.
Bulletins of the University of Minnesota	The University, Minneapolis.

LIST OF PRESIDENTS

SINCE

THE FOUNDATION OF THE SOCIETY.

1821-2 : '22-3 : '23-4 : '24-5 : '25-6.	JOHN MARSHALL.
1826-7 : 1827-8.	Rev. W. H. BATHURST, M.A.
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1886-7 : '87-8 : '88-9.	THOMAS MARSHALL, M.A.
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1898-9 : '99-1900.	NATHAN BODINGTON, M.A., Litt.D.
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1909-10 : 1910-11.	Rev. J. R. WYNNE-EDWARDS, M.A.
1911-12.	C. T. WHITMELL, M.A., B.Sc., F.R.A.S.
1912-13 : 1913-14.	P. FRY KENDALL, M.Sc., F.G.S.
1914-15.	Rev. W. H. DRAPER, M.A.

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1914-1915.

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REV. J. R. WYNNE-EDWARDS, M.A.

Curator . . . HENRY CROWTHER, F.R.M.S.

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ORIGINAL PROPRIETARY MEMBERS,

being owners of Original Proprietary Shares of £100 each, exempt from Annual Subscriptions.

There are 78 Shares: 55 Members.

3	Armitage, Robert, M.P.	Farnley.
52	Arnold, Mrs. Emily R.	2, North Hill Road, Headingley.
75	Bagshawe, Bernal	Red House, Chapel Allerton.
49	Baines, Mrs. Arthur	The Heath, Adel.
5	Baines, Mrs. Herbert S.	10, Richmond Road, Headingley.
63	**Barr, Frederick Horatio*	
6	Barran, Sir John N., Bart., M.A., M.P.	Sawley Hall, Ripon, Yorks.
22, 24	**Beckett, W.* (2 shares)	
44	Bidder, Maurice McClean	Moorfield Lodge, Headingley.
18	Bilbrough, Alfred	15, Beech Grove Terrace.
8	**Binks, Benj., Junr.*	
45	Braithwaite, James, M.D.	Clarendon Road.
9	Broadhead, Wm. Edward	30, St. Michael's Terrace, Headingley.
78	Brotherton, E. Allen	The Hall, Roundhay.
11	**Brown, James*	
13, 14	**Calverley, Edmd.* (2 shares)	
15	Clark, Edwin Kitson, M.A., F.S.A., M.Inst.C.E.	Meanwoodside, Headingley.
19	Close, James William	Greek Street.
26	Cousins, William James	Greek St. Chambers, Park Row.
39	Crawford, George Frederic	17, East Parade.
23	**Dibb, Mrs. Elizabeth*	
1	Dodgson, E. Oldroyd	Southleigh, Headingley.
25	Eddison, John Edwin, M.D.	The Lodge, Adel.
55	Eddison, Mrs. J. E.	The Lodge, Adel.
28	**Empson, Christopher*	
29, 48	Ford, J. R., (2 shares)	61, Albion Street.

* Deceased Members.

ORIGINAL PROPRIETARY MEMBERS—*continued.*

72	Gaunt, Leonard .	Hazelbrae, Farsley.
35	**Gott, The Rev. John, D.D.*	
36, 37, 38	Gott, Wm. Henry (3 shares)	Montpelier Terrace, Scarbro'.
61	Greenhow, Wm. T. .	NewtonCottage, Chapel-Allerton
27	Hall, William .	Hillside, Headingley.
64	Harding, Thomas Walter .	Tower Works, Globe Road.
42	Heaton, Beresford R. .	Round Down, Gomshall.
50	**Hollis, Walter Dawson* .	
7	Holmes, Arthur Thomas .	4, East Parade.
47	Ingham, John P. .	11, Belgrave Terrace, Scarbro'.
51	**Kinnear, Thos. John, M.A.*	
20	Knaggs, Robert Lawford, M.A., M.D., M.C. .	27, Park Square.
43	Lancaster, William Thomas	7, Clarendon Place, Mount Preston.
34	Lumb, George Denison, F.S.A. .	31, Lyddon Terrace.
77	Lupton, Arthur Michael .	Spring Wood, Roundhay.
57	Lupton, Charles, M.A. .	Carr Head, Roundhay.
53	Lupton, Fras. Martineau, M.A. .	Rockland, Newton Park.
56	Lupton, Sydney, M.A. .	102, Park Street, Grosvenor Sq. London, W.
58	**Makins, Charles* .	
59	**Marshall, Arthur* .	
60	**Marshall, John* .	
66	**Marshall, Reginald Dykes*	
67	Marshall, V. A. E., B.A. .	Monk Coniston, Ambleside.
32	Moseley, Miss C. A. .	The Lodge, Adel.
68	**Nunneley, J. A., M.B.* .	
17	Padgett, Frederick A. .	Belmont, Burley-in-Wharfedale.
21	Plumbley, Robert Dyball .	51, Cardigan Road, Headingley
46	Raynar, Joseph Percival .	Tancred, Whixley, York.
65	Sadler, Michael E., C.B., M.A., LL.D. .	41, Headingley Lane.
70	**Shepherd, John* .	

* Deceased Members.

ORIGINAL PROPRIETARY MEMBERS—*continued.*

10	Streatfeild, Richard James.	The Rocks, Uckfield, Sussex.
71	Tatham, Miss .	Far Headingley.
73	Teale, Lionel H. .	Heathfield Terrace, Far Headingley.
4	Tetley, C. F., M.A. .	Spring Bank, Headingley.
74	Tottie, Mrs. John William	Cold Coniston, Bell Busk.
76	Ward, Mrs. A. Ellend .	36, Hyde Terrace.
2	Warde-Aldam, W. W. .	Frickley Hall, Doncaster.
12	Wilson, Rev. Benjamin .	Christ Church Vicarage, Mirfield
30, 31, 33, 54	Wilson, Richard (4 shares)	Westfield, Armley.
62	Wilson, Reginald A. .	Fulwood, Moorland Drive, Moor-Allerton.
16	Wilson, Mrs. Robert L. .	21, Lyddon Terrace.
40, 41, 69	Wood, William Hoffman (3 shares) .	8, Queen Square.

NEW PROPRIETARY MEMBERS,

being owners of New Proprietary Shares of £50 each, with an Annual Subscription of One Guinea.

There are 65 Shares: 62 Members.

47	Airedale, The Rt. Hon. Lord .	Gledhow Hall.
92	Barran, Alfred .	Moor House, Headingley.
119	Barrett, Albert .	Cliff Lawn, Hyde Park.
17	Beaumont, James .	21, Bond Street, Leeds.
91	Bedford, James E., F.G.S.	Shireoak Road, Headingley.
87	Bickersteth, The Rev. Dr.	The Vicarage, Leeds.
121	Blackburn, Henry G. .	2, East Parade.
10	Bowling, John .	
49	Braithwaite, William .	Throstle Nest, Horsforth.
6	Brown, G. W. .	78, Belsize Park Gardens, Hampstead, London, N.W.
5	Brown, Miss .	Barden Grange, Headingley.
37	Bulmer, Miss .	Blenheim Lodge.

* Deceased Members.

NEW PROPRIETARY MEMBERS—*continued.*

1	Burrell, Benjamin A., F.I.C.	8, Springfield Mount.
86	Carter, Mrs. E. G.	Elm House, Chapel Allerton.
77	Clark, Mrs. E. Kitson	Meanwoodside, Headingley.
39	Crowther, Mrs. H.	Brudenell Mount, Headingley.
26	Elliot, Douglas	Atlas Chambers, King Street.
118	**Flitch, John R.*	
3	Ford, Gervase Lawson	61, Albion Street.
32	Garforth, W. E., Sir, LL.D., M.Inst.C.E.	Snydale Hall, near Pontefract.
84	Grant, Prof. A. J., M.A.	21, Burton Crescent.
7	Hargrove, Rev. C., M.A.	16, Franklin Mount, Harrogate.
16	Harvey, William	The Grove, Roundhay.
4	Hodges, Isaac	Bovey Court, Vereeniging, Transvaal.
98	**Howgate, William*	
74	Howgate, Wm. Arthur	21, Blenheim Terrace.
53	**Hudson, Robert*	
56	James, Christopher Wm.	Pen-y-Bryn, Chapel-Allerton.
33	Kendall, Prof. P. F., M.Sc., F.G.S.	The University, Leeds.
46	Kitson, Robert Hawthorn, M.A.	Elmet Hall, Leeds.
48	Kitson, Mrs. F. W.	Burley Hill, Leeds.
12	Kitson, Sydney D., M.A., F.R.I.B.A.	Hillside, Gledhow.
90	Lawson, Frederick W.	Oaklands, Adel.
21	Lupton, Oliver	Lyndhurst, North Grange Road, Headingley.
95	Lupton, Arthur Greenhow, M.A., LL.D.	Springwood, Roundhay.
8	Lupton, Henry	Courtlands, Chelston, Torquay.
99	Lupton, Hugh	The Acacias, Roundhay.
55	**Lupton, Mrs. John*	
63, 100	Lupton, Fras. Martineau, M.A. (2 shares)	Rockland, Newton Park.

* Deceased Members.

NEW PROPRIETARY MEMBERS—*continued.*

94	Malcolm, John Cooper .	Brighton Villa, New Leeds.
89	**March, Henry*	
58	March, Miss R. E. .	Beech Grove House.
60	**Marshall, Thomas, M.A.*	
27	Maude, William Henry .	Middleton Lodge, Leeds.
117	Middleton, Mrs. Arthur .	Moor Grange, Moor Road, Headingley.
72	**Middleton, Robert* .	
30	Nicholson, Marshall .	Middleton Hall, near Leeds.
68	Oxley, James Walker .	Spenfield, Weetwood.
113	Parsons, Walter .	City Training College, Headingley.
11	Pegler, Thos. Boyne .	
93	Phillips, J. S. R. .	55, Albion Street.
105	Ryder, Miss .	Beaconhill, Scarcroft.
120	Scattergood, Bernard, M.A., M.I.E.E. .	Moorside, Moor Rd., Headingley.
54	Schüddekopf, Prof. A. W., M.A., Ph.D. .	32, Springfield Mount.
80	Smith, Arthur I. E., F.R.G.S. .	63, Albion Street.
29	Smith, H. Senior .	10, East Parade.
57	**Stringer, John William* .	
51	Talbot, Grosvenor .	Southfield, Burley
73	Teale, T. P., M.A., D.Sc., F.R.S. .	North Grange, Headingley.
69	Vaughan, Prof. C. E., M.A.	
41	Webb, Joseph S. .	3, Park Place.
83	Wicksteed, J. H., Past-President Inst.M.E., M.Inst.C.E. .	Weetwood Croft, Far Headingley.
31	Wilkinson, William M. .	Brecondone, St. Mary's Road.
24	Wynne-Edwards, Rev. J. R., M.A. .	The Grammar School, Leeds.

* Deceased Members.

NEW ORDINARY MEMBERS,

being Owners of New Ordinary Shares of £20 each, with an Annual Subscription of One Guinea.

There are 35 Shares: 35 Members.

34	Allerton, The Rt. Hon. Lord, LL.D., F.R.S. .	Allerton Hall, Leeds.
48	Barran, Rowland H., M.P.	Beechwood, Roundhay.
4	Barwick, J. M. .	Low Hall, Yeadon.
5	Bedford, James E., F.G.S. .	Arncliffe, Shireoak Road.
40	Bodington, Lady .	Woodbourne, North Hill Road, Headingley.
10	Bousfield, Charles Edward	Kingsbridge, Devon.
77	Bragg, Prof. W. H., M.A., F.R.S. .	Rosehurst, Grosvenor Road, Headingley.
7	Branson, F. W., F.I.C. .	Wynneholme, Far Headingley.
72	Brigg, Matthew A. .	Dock Ing Mills, Batley.
11	Briggs, Riley .	
	Cohen, Professor J., Ph.D.	1, North Grange Mount, Headingley.
33	Denison, Samuel .	Spenthorn, West Park.
18	Dodgson, Aquila .	Southleigh, Headingley.
82	Draper, Rev. W. H., M.A.	The Rectory, Adel.
65	Eddison, Octavius, B.A. .	
20	Eddison, Mrs. R.W., LL.D.	Stairfoot, Adel.
22	Fairley, Thomas, F.R.S.E.	8, Newton Grove.
80	Garstang, Prof. Walter, M.A., D.Sc. .	2, Ridge Mount, Headingley.
25	Goodman, Prof. John, M.Inst.C.E. .	The University, Leeds.
60	Harland, J. W. .	
78	Hawkesworth, Edwin .	Sunnyside, Crossgates.
28	Hepper, John .	Clareville, Headingley.
30	Hobson, Alfred .	The Gables, North Park Avenue, Roundhay.
6	Jackson, Richard .	11, Spring Road, Headingley.
38	Kitson, Hon. Hilda .	Gledhow Hall.

NEW ORDINARY MEMBERS—*continued.*

58	Lambert, J. Vollans, L.D.S.Eng., F.Z.S.	3a, Hillary Place.
63	Lidderdale, E. W., B.A.	Western Branch Bank of England, Burlington Gardens, London, N.
45	March, George	Oaklands, Scarcroft.
46	Middleton, Gilbert	Calverley Chambers, Victoria Sq.
70	Moorman, Prof. F. W., B.A., Ph.D.	2, Hollin Lane, Far Headingley.
55	Nussey, Mrs. S. L.	Potternewton Hall.
26	Ramsden, Arthur	20, Cemetery Place, Woodhouse Lane.
73	Rowley, Walter, M.Inst.C.E., F.S.A., F.G.S.	Alder Hill, Meanwood.
76	Smithells, Prof. A., B.Sc., F.R.S.	29, Moor Road, Far Headingley.
85	Wallis, Edwin Cooper, M.I.E.E.	90, Potternewton Lane, Chapel-Allerton.
57	Ward, George, F.C.S.	Buckingham Ter., Headingley.
47	Whitmell, C. T., M.A., B.Sc., F.R.A.S.	Invermay, Headingley.

ANNUAL SUBSCRIBERS OF ONE GUINEA.

Albrecht, Mrs.	Lakeside, Roundhay.
Barker, Walter N.	14, Brandon Grove, Newton Park.
Bartholomew, W. H., M.Inst.C.E.	Ridge Way House.
Bedford, Charles S.	Rocella, Weetwood.
Bingham, F.	Wayside, Lidgett Park, Roundhay.
Birch, Prof. de Burgh, C.B., M.D., C.M., F.R.S.E.	8, Osborne Terrace, Virginia Rd.
Booth, William	Longfield, Rodley.
Boyce, Frank	7, Whitehorse Street.
Braithwaite, J. E.	6, South Parade.
Braithwaite, Mrs.	Kirkstall Lane, Headingley.
Bray, Arthur	Meriden, West Park, Headingley

ANNUAL SUBSCRIBERS OF ONE GUINEA—*continued.*

Brown, Richard H.	Wellington Street.
Cameron, J. S., B.Sc., M.D.	27, Regent Park Terrace.
Chorley, R. D.	Cookridge Street.
Clark, Miss	Potternewton.
Connal, Prof. B. M., M.A.	29, Wood Lane.
Crampton, Charles	Cromer Hall.
Croft, E. O., M.D.	28, Clarendon Road.
Croysdale, Charles	102, Cardigan Road, Headingley.
Dawson, E. W.	63, Victoria Road.
Dufton, S. F., M.A., D.Sc.	Laurel Bank, Claremont Road, Headingley.
Fysher, J. Greevz	78, Harrogate Road, Chapel-Allerton.
Gillespie, Professor C. M., M.A.	6, Hollin Lane, Headingley.
Green, John H.	Horbury, near Wakefield.
Green, Miss	1, Tanfield Place.
Griffith, Prof. T. Wardrop, M.D.	43, Park Square.
Grisdale, W.	88, Francis Street, Chapeltown.
Hannam, William Simpson	4, East Parade.
Harper, Alfred	Eccleshill, near Bradford.
Hepworth, H. M.	Lincombe, North Hill Road, Headingley.
Hey, Mrs. Donald	Bramhope.
Hudleston, W. H.	Wither Lodge, Kirkstall.
James, Chas. Hy.	Holzendorff, Grange View, Chapeltown.
Jepson, William	City Chambers.
Johnson, Rev. Herbert, M.A.	All Souls' Vicarage.
Jones, Fk. W.	Cardigan Villa, Grove Lane, Headingley.
Jowett, Charles	78, Albion Street.
Keenan, Miss	2, Woodlands, Weetwood Lane.
Kitson, Fk. J.	Gledhow Grove, Chapel-Allerton.

ANNUAL SUBSCRIBERS OF ONE GUINEA—*continued.*

Lawson, Sir Arthur T., Bart.	Bedale.
Montague, Miss	21, Cavendish Road.
Mozley, J. R., M.A.	1, Holly Bank, Far Headingley.
Newill, Frank	9, Kelso Road.
Oldfield, Carlton, M.D., M.R.C.P.	Cleveland House, Cardigan Road.
Peate, Jonathan	Guiseley.
Pope, H. Barrett	Gathorne House, Roundhay Rd.
Richardson, W. W.	Aldingham, Park View Crescent, Roundhay.
Roberts, Prof. W. Rhys, Litt.D., LL.D.	13, St. Michael's Crescent, Headingley.
Robinson, Edmund, M.D.	42, Park Square.
Roebuck, W. Denison, F.L.S.	259, Hyde Park Road.
Rogers, Prof. L. J., M.A., Mus.Bac.	The University, Leeds.
Schofield, Wm. N.	Southfield House, Clarendon Rd.
Scott, John	71, West View, Ilkley.
Sharp, Gordon, M.D.	9, Cavendish Road.
Sharp, J. N.	Newton Lodge, Potternewton.
Simpson, E. O.	East Parade.
Stanley, Mrs. S. Scott	Grove House, North Lane, Roundhay.
Sykes, Arthur	Roundhay Grange.
Sykes, W.	14, Avenue Hill, Chapeltown Road.
Thornber, W.	68, Avenue Hill, Harehills Lane.
Thomas, P. D.	Rose Bank, Allerton Park, Chapel-Allerton.
Wager, H. W. T., F.R.S.	Hendre, Horsforth Lane, Far Headingley.
Watson, William	105, Victoria Road, Headingley.
Wilkinson, J. J.	Burnside, Skipton.
Wilson, D'Arcy B.	Seacroft.
Wood, Thomas	11, Quarry Mount, Woodhouse

ANNUAL SUBSCRIBERS OF SEVEN SHILLINGS AND SIXPENCE.

Albrecht, Miss M.	Lakeside, Roundhay.
Annakir, Miss	Macaulay Hall, Beckett's Park.
Arah, J. R.	Upper Armley School.
Barber, Miss	161, Victoria Road.
Barber, W. H., B.A.	Boys' Modern School.
Barford, Miss	Grammar School Endowment, Headingley.
Barker, Mrs. Walter N.	14, Brandon Grove, Newton Park.
Branson, Mrs. F. W.	Wynneholme, Far Headingley.
Bray, Mrs. Arthur	Meriden, West Park, Headingley.
Brockwell, Miss	21, Clarendon Road.
Cameron, Mrs.	27, Regent Park Terrace.
Campbell, Mrs.	27, Weetwood Lane.
Cobb, Miss H.	Thoresby School.
Croysdale, Mrs. C.	102, Cardigan Road.
Dale, F. R., B.A.	The Grammar School.
Dale, Mrs. F. R.	18, Cromer Terrace.
Dawson, Miss E. M.	63, Victoria Road, Headingley.
Dufton, Mrs. S. F.	Laurel Bank, Claremont Road, Headingley.
Favell, Miss M. L.	139, Albion Street.
Foster, Mrs. George	Castlestead, Boston Spa.
Fysher, Mrs. Greevz	78, Harrogate Road, Chapel-Allerton.
Garforth, Miss	Snydale Hall, near Pontefract.
Gill, L. W.	Ingram Road Council School.
Grant, Mrs.	21, Burton Crescent.
Green, Miss Ethel	1, Tanfield Place.
Grant, C. H., M.Sc.	212, Burley Road.
Griffith, Mrs. T. Wardrop	43, Park Square.
Hannam, Mrs. W. S.	4, East Parade.
Hardy, Miss	Priestley Hall, Beckett's Park.
Harmer, F. G.	Muscoates, Kirkstall Lane.

ANNUAL SUBSCRIBERS OF SEVEN SHILLINGS AND SIXPENCE—*continued.*

Heckler, Miss Ada M.	The Hollies, Weetwood.
Hudleston, Mrs. W. H.	Wither Lodge, Kirkstall.
Hunter, Miss	2, Richmond Road, Headingley.
James, Mrs.	Holzendorff, Grange View, Chapeltown.
James, Miss	Holzendorff, Grange View, Chapeltown.
Jones, Mrs. F. W.	Cardigan Villa, Grove Lane, Headingley.
Kelsey, H. T., M.A.	The Grammar School.
Kelsey, Mrs. H. T.	59, Mount Preston.
Kent, J. J. P.	The Grammar School.
King. H.	Cockburn High School.
Kitson, Mrs. F. J.	Gledhow Grove, Chapeltown.
Lebour, Miss M. V., M.Sc.	The University, Leeds.
Lowe, Miss L. A., M.A.	Grammar School Endowment, Headingley.
Mannaberg, Miss L.	The Hollies, Weetwood.
Montague, Miss A. E.	21, Cavendish Road.
Moorman, Mrs.	2, Hollin Lane, Far Headingley.
Murphy, Miss O.	2, Springfield Mount.
Murphy, Miss B.	Do. do.
Murphy, Miss D.	Do. do.
Nelson, Miss C. E.	34, Hyde Terrace.
Nelson, Miss Louisa	Do.
Netherwood, Miss	Grove House, North Lane, Roundhay.
Newill, Miss Amy	9, Kelso Road.
North, Miss F. C.	1, Virginia Road.
North, Miss K. K.	1, Virginia Road.
Oldroyd, W. L.	West Hill Road, Chapeltown.
Outram, Miss	33, Kensington Terrace.
Richardson, Mrs. W. W.	Aldingham, Park View Crescent, Roundhay.
Robertson, Miss H., B.A.	The University.

ANNUAL SUBSCRIBERS OF SEVEN SHILLINGS AND SIXPENCE—*continued.*

Rowe, E.	162, Harrogate Road.
Russell, Miss	11, Victoria St., Chapel-Allerton.
Ryder, Miss Louisa	Beaconhill, Scarcroft.
Scoular, Miss A. J. M.	41, Harlech Terrace.
Serpell, H. W., M.A.	The Grammar School.
Simpson, Mrs. E. O.	East Parade.
Smith, T. W.	Central High School.
Sykes, Mrs. W.	14, Avenue Hill, Chapeltown Road.
Teale, Miss	North Grange, Headingley.
Thomas, Mrs. P. D.	Rosebank, Allerton Park, Chapel-Allerton.
Tyas, J. W.	19, Claremont Avenue.
Wager, Mrs. H. W. T., B.A.	Hendre, Horsforth Lane, Far Headingley.
Walbank, W. T.	10, Cranbrook Avenue, Beeston Hill.
Walker, Miss, D.L., M.A.	Grammar School, Endowment, Headingley
Walker, Mrs. N.	60, Chapel Lane, Headingley.
Ward, Mrs. G.	Buckingham Terrace, Headingley.
Wharton, Miss Dorothy	Thoresby High School.
Wood, Mrs.	11, Quarry Mount, Woodhouse.
Wood, Miss	Do. do.
Wynne-Edwards, Miss	The Grammar School.

Members and Subscribers are requested to inform the Curator of any errors that may be found in the above list.

HONORARY MEMBERS.

Professor Sir T. Clifford Allbutt, K.C.B., M.D., F.R.S., Cambridge.
[Elected 1889].

Wm. Hancock, F.L.S., F.R.G.S., c/o Commissioner of Customs, Kowloon, Hong Kong, China.
[Elected 1892].

Sir Clements R. Markham, K.C.B., F.R.S., F.L.S., Pres. R.G.S., 21, Eccleston Square, Pimlico, London, S.W.
[Elected 1877].

Sir Charles Nicholson, Bart., D.C.L., &c., The Grange, Totteridge, Hertfordshire.
[Elected 1862].

Sir A. W. Rücker, Kt., D.Sc., LL.D., F.R.S., 19, Gledhow Gardens, London.
[Elected 1889].

Sir T. E. Thorpe, C.B., D.Sc., LL.D., Ph.D., F.R.S., Imperial College of Science and Technology, South Kensington, London.
[Elected 1887].